

Gender Bias in Academe: An Annotated Bibliography of Important Recent Studies

Academic research plays an important role in uncovering bias and helping to shape a more equal society. But academia also struggles to adequately confront persistent and entrenched gender bias in its own corridors. Here [Danica Savonick](#) and [Cathy N. Davidson](#) have aggregated and summarised over twenty research articles on gender bias in academe, a crucial resource for International Women's Day.



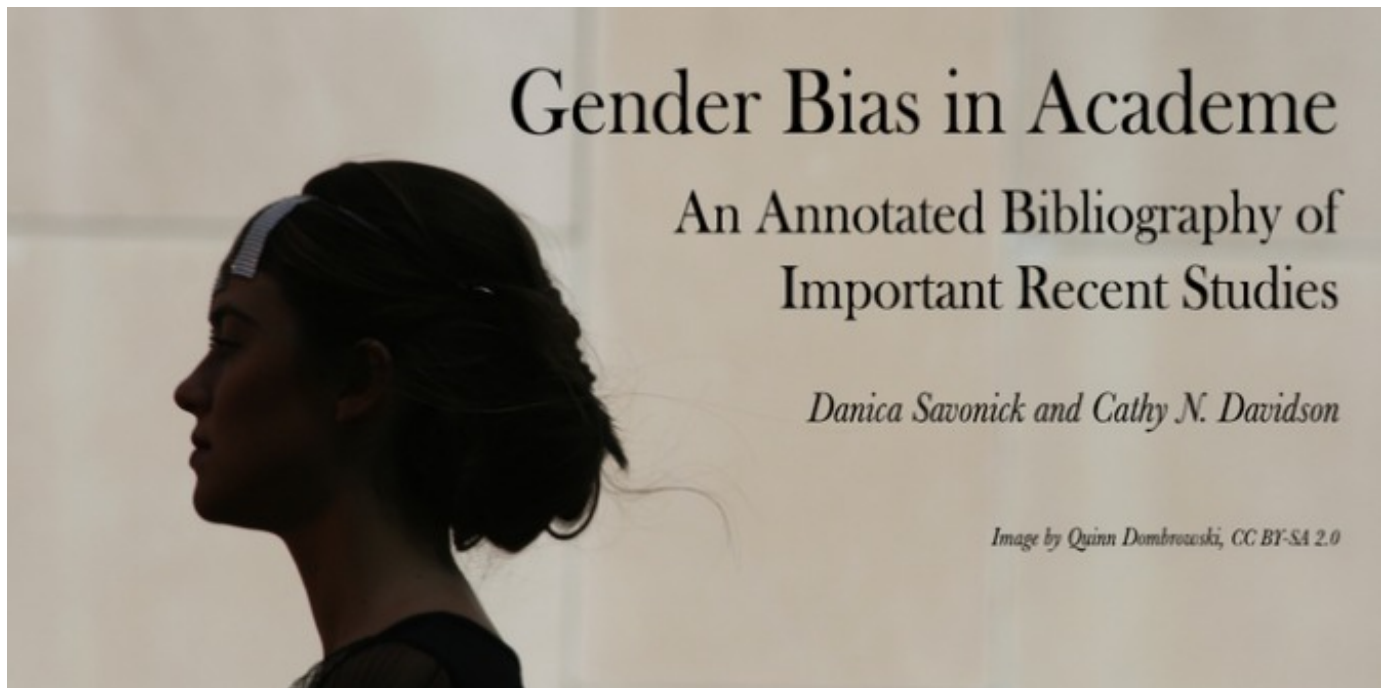
This piece is part of a wider series on [Women in Academia](#) and coincides with [LSE Women: making history](#) – a campaign in celebration of #LSEwomen past, present and future.

The often unconscious and unintentional biases against women, including in academe, have been well documented in the autobiographical writings of authors such as Audre Lorde, Adrienne Rich, Patricia Williams, and bell hooks. But is the experience they document merely “subjective”?

Several recent social science research studies, using strictly controlled methodologies, suggest that these first-person accounts of discrimination are representative, not simply anecdotal.



The studies aggregated and summarized below offer important policy implications for the traditional ways that we quantify the processes leading to hiring, promotion, and tenure. You cannot simply count “outputs” in making an evaluation of someone’s worth and reputation if there is a “biased filter” at the first stage of evaluation, prejudicing judgment at the outset.



These studies should be required reading of any administrators and faculty committees charged with decision-making. They should be required reading for award committees and Human Resources departments, for policy makers and accreditation agencies. As much as possible, these studies supplement anecdotal accounts of gender discrimination with empirical evidence of a gender bias that is unconscious and pervasive.

Call for Additional Citations

We include here a round-up of several of these recent studies. There is also an [open, public Google Doc](#) to which we invite others to add other relevant studies and responsible, careful, fact-checked annotations.

Talking Points for Further Discussion and Reflection

Before listing the studies, we would like to offer a number of talking points about what they, in aggregate, suggest.

- In these studies, actors believe, often quite earnestly, that they are making choices or judgments based entirely on the basis of “quality” or “excellence” or “expertise.” However, several of the studies reveal that changing only the gender identification of the person being judged radically and consistently alters the way others evaluate the quality of that person’s work. Work by people assumed to be men—as students, as colleagues, as authors, as experts—is consistently judged to be superior to that by people assumed to be women—even when the only difference in is the author’s gender-specific name.
- Women are as likely as men to make biased judgments that favor men.
- Culture and representations play an important role in perpetuating gender bias within and beyond academe. Cultural factors are not just of concern to humanists but also have a direct impact on perception more globally—they are variables that social scientists and natural scientists must attend to. A study that appeared in proceedings of the National Academy of Sciences acknowledged that gender biases stem “from repeated exposure to pervasive cultural stereotypes that portray women as less competent but simultaneously emphasize their warmth and likeability compared with men” (Moss-Racusin et al., 2012).
- The implications of these studies are relevant to both broad and discipline-specific trends. This is important given how different disciplines often have seemingly unique protocols for hiring, tenure, and promotion. Gender bias seems pervasive, even when the forms, methods, and metrics vary by discipline.
- Almost all of the articles call for conscious, structured, institutional efforts to counteract unconscious and unintentional gender biases. (Left to our own devices, we humans seem incapable of judging without prejudice; corrections need to be built into our systems.)
- Humanists—whether in women and gender studies, science studies, or education studies—need to attend to these quantitative studies, help students learn to interpret and deploy them, and perhaps even suggest further areas for empirical study. They provide convincing evidence to support many theoretical arguments (and vice versa).
- Studies of the hard data of gender bias—in an era of hard data—should be required reading of all administrators and all faculty who are called upon to make decisions about hiring, tenure, and promotion based on purely quantitative measures such as “productivity” or “citation counts.” An adage of data scientists is “garbage in, garbage out.” That means if the sample or the data is corrupt or biased when it is first entered, then any conclusions based on mining or crunching that data must be regarded with keen skepticism. You cannot simply count the end product (such as number of articles accepted, reviewed, awarded prizes, or cited) without understanding the implicit bias that pervades the original selection process and all the subsequent choices on the way to such rewards.

Additional Intersecting Components: Race, Class, Ethnicity, Sexuality, and (Dis)ability

The methodology of a number of these studies follows, either by acknowledging or directly citing, the original, landmark study of racism and job discrimination, “Are Emily and Greg More Employable than Lakisha and Jamal? A Field Experiment on Labor Market Discrimination,” by Marianne Bertrand and Sendhil Mullainathan ([American Economic Review 94.4 \(2004\): 991-1013](#)). In this now-classic study, the exact same resumes were sent out, with only the name of the applicant changed. The result: “White names receive 50 percent more callbacks for interviews.”

Given the important findings in that groundbreaking study of racism, one wishes these gender studies had also found a way to account for racial discrimination too. To see the parallel role of race and racial discrimination—and the particular discriminations that happen to women of color in the academy—we highly recommend the volume by [Gabriella Gutiérrez y Muhs](#), Yolanda Flores Niemann, [Carmen G. González](#), and [Angela P. Harris](#), *Presumed Incompetent: The Intersections of Race and Class for Women in Academia* (Utah State University Press, 2012). The pieces in this book form a crucial intervention in the study of gender bias, focusing on the combined biases faced by women of color in academe (see annotation below).

In addition, we need to attend to research that analyzes the experiences of the non-normatively gendered within academe. We need conscious efforts to counteract unconscious and unintentional biases based on gender, race, ethnicity, class, sexuality, and (dis)ability.

An Annotated Bibliography of Recent Studies of Academic Gender Bias and Gender Discrimination (arranged chronologically)

Prejudice against gay male and lesbian lecturers

[“Student Prejudice Against Gay Male and Lesbian Lecturers”](#)

The Journal of Social Psychology | 2003

This study by Vanessa Lynn Ewing, Arthur A. Stukas Jr., and Eugene P. Sheehan used an “attributional ambiguity paradigm” to compare student reactions to lectures when students did not know the sexual orientation of the speaker and when the speaker was identified as gay or lesbian. When the lecture delivered was “weak,” participants actually rated the gay and lesbian lecturers more highly, which the authors suggest may be an effort to avoid discrimination. However, when the lecture was “strong,” participants rated known gay and lesbian lecturers more negatively than the lecturers whose sexual orientations were not known. According to the authors, these findings suggest how biases and prejudices based on sexual orientation may affect perceptions of “merit, skill, or likeability,” which often weigh heavily in hiring decisions.

Gender gap in medical literature authorship

[“The ‘Gender Gap’ in Authorship of Academic Medical Literature — A 35-Year Perspective”](#)

The New England Journal of Medicine | July 20, 2006

This study by Reshma Jagsi and Elizabeth A. Guancial et al. analyzes original articles from six prominent medical journals over the past four decades to explore the disparities among men and women in academic medical publishing. They found that although the proportion of women authors of original research has increased, women still compose a minority of the authors of original research and guest editorials.

Explaining the low number of women aspiring to academic careers in the sciences

[“The chemistry PhD: the impact on women’s retention”](#)

Royal Society of Chemistry | 2008

In the UK, only 12% of third year female PhD students in chemistry want to pursue a career in academe, compared to 21% of men. This report prepared by Jessica Lober Newsome analyzes why women in chemistry PhD programs often choose not to pursue academic careers in research beyond their PhD. Female participants in the study described the obstacles they faced in doctoral study including lack of mentorship, feelings of isolation and exclusion (particularly within research groups), discomfort with the masculinist culture of research groups, and apprehensions that poor (though statistically average) experimental success rates would reflect negatively on their competence. In addition to these experiences during doctoral programs, female participants in the study chose not

to pursue careers in science research because they understood these careers to be “too all- consuming, too solitary and not sufficiently collaborative,” incompatible with their relationship and family goals, demanding of sacrifices (related to femininity and motherhood), and already biased against women. The study includes policy recommendations such as incentivizing and rewarding programs that promote gender equity; developing networks of mentorship, contact, and support; creating more supportive cultures; training supervisors to incorporate diversity and equity; recognizing and funding support given by postdoctoral fellows; asking women role models to share best practices; and incorporating classes on gender equity, including at research conferences.

Women of color faculty experience gendered racism

[“Race and Gender Oppression in the Classroom: The Experiences of Women Faculty of Color with White Male Students”](#)

Teaching Sociology | 2010

This study by Chavella T. Pittman focuses on the classroom experiences of women of color faculty. Through interviews, Pittman found that women of color faculty experience gendered racism in the classroom and that their authority is challenged, their competency is questioned, and their scholarly expertise is disrespected “almost exclusively” by white male students. According to Pittman, the findings “are consistent across black, Asian American, and Latina faculty.” Similarly unequal power dynamics are reported among women of color faculty in the humanities, social sciences, and natural sciences, and among faculty from all ranks, junior to senior. In the conclusion, Pittman notes that “until additional knowledge and strategies are developed to eliminate race and gender oppression in the classroom, universities must take action to acknowledge it and protect women faculty of color from the ramifications of this difficult environment.”

Science faculty’s gender bias

[“Science faculty’s subtle gender biases favor male students”](#)

Proceedings of the National Academy of Sciences of the United States of America | October 9, 2012

This randomized, double-blind study by Corrine A. Moss-Racusin, John F. Dovidio, Victoria L. Brescoli, Mark J. Graham, and Jo Handelsman found that both male and female faculty exhibited a bias against female undergraduate students, evaluating them as less competent, hireable, and qualified, and offering them less funding and mentorship.

Based on application materials, a candidate for a laboratory manager position was deemed more competent, qualified, and hireable if they had a male name. Identical application materials submitted under a female name were judged as less qualified. In addition, the faculty hiring committee selected a higher starting salary and offered more mentorship to selected male applicants. Gender bias was found in both male and female faculty. The authors of the study acknowledge that bias is often implicit or unintentional, “stemming from repeated exposure to pervasive cultural stereotypes that portray women as less competent but simultaneously emphasize their warmth and likability compared with men.” The authors cite research findings that those in disciplines that value objectivity are particularly susceptible to subtle gender biases because they are not on guard against them. Indeed, these negative biases against female undergraduates may affect their career decisions and whether they see doctoral studies in the sciences as a viable option.

The authors call for a conscious intervention that addresses faculty gender biases: “The dearth of women within academic science reflects a significant wasted opportunity to benefit from the capabilities of our best potential scientists, whether male or female.”

The presumption of incompetence: women of color in academia

Gabriella Gutiérrez y Muhs, Yolanda Flores Niemann, Carmen G. Gonzalez, and Angela P. Harris, eds. *Presumed*

Incompetent: The Intersections of Race and Class for Women in Academia. Boulder: University Press of Colorado, 2012.

<http://www.usu.edu/usupress/books/index.cfm?isbn=8695>

https://www.facebook.com/PresumedIncompetent?ref=br_tf

The essays in *Presumed Incompetent* interpret and contextualize many studies of the additional obstacles faced by women of color in academe including the presumption of incompetence (perpetuated by a lack of role models, leaders, and mentors), covert and overt racism, conscious and unconscious bias, extra work, tokenism, having to battle stereotypes like the “mammy,” racist and sexist teaching evaluations, and the presumption of self-interest rather than expertise when teaching about oppression.

Women researchers in Canada

[“Strengthening Canada’s Research Capacity: The Gender Dimension”](#)

Council of Canadian Academies | 2012

This study of women researchers in Canada found that despite the increasing proportion of women in academe, “significant disparities [are] still present by rank and discipline.” More specifically, they found that as academic rank increases so too does the percentage of men in comparison to women. The report also includes strategies for attracting and retaining women researchers such as increasing mentorship opportunities, scholarships, targeted grants; creating more flexible and family-friendly environments, including on-campus child-care services; instituting government-legislated policies that address systemic issues such as legislated quotas, employment equity policies, and grants to accommodate parental leave; and undertaking legal action to redress inequalities and injustices.

How academe discourages women from entering the sciences

Mason, Mary Ann, Nicholas H. Wolfinger and Marc Goulden. *Do Babies Matter?: Gender and Family in the Ivory Tower*. New Brunswick: Rutgers University Press, 2013.

<http://rutgerspress.rutgers.edu/product/Do-Babies-Matter,4767.aspx>

This book explores the role of family formation in discouraging women from pursuing graduate degrees and becoming faculty members in the sciences. It addresses issues like the dearth of female role models and “the baby penalty,” (how women with children are far less likely to receive tenure than childless women or men with or without children). The authors include recommendations for addressing these inequalities such as entitlements, rather than special accommodations, like tenure-clock stoppage and parental leave, that are available to both men and women. Read more, including recommendations for greater gender equity, in Nicholas H. Wolfinger’s article “For Female Scientists, There’s No Good Time to Have Children” in *The Atlantic* [here](#).

The Matilda Effect: female communication scientists cited less frequently

[“The Matilda Effect—Role Congruity Effects on Scholarly Communication”](#)

Communication Research | February 2013

Note: The Matilda effect, coined in 1993 by Margaret W. Rossier, names the systematic denial of contributions by women in the sciences. Their work is often attributed to male colleagues.

In this study, authors Silvia Knobloch-Westerwick and Carroll J. Glynn performed a citation analysis of 1,021 articles published in *Communication Research* and the *Journal of Communication* between 1991 and 2005. They found that articles authored by female communication scientists received fewer citations than articles authored by males.

Data analysis showing women publish less than men

[“The Role of Gender in Scholarly Authorship”](#)

PLoS ONE | July 22, 2013

This study by Jevin D. West et al. uses data from JSTOR to analyze the gender gap in scholarly publishing, exploring interpretations that range from gender bias to women’s disproportionately greater time commitments to the roles of teaching and committee work. The authors looked at more than 8 million papers across the natural sciences, social sciences, and humanities, revealing persistent gender inequities across the disciplines. For instance, they found that the percentage of female authors is much lower than the percentage of women in full-time faculty positions. They also found that women are significantly underrepresented as authors of single-authored papers and that men predominate in the prestigious first and last author positions. In the sciences, the order in which authors’ names appear is crucial for tenure and promotion, though women are often less confident and assertive when negotiating where their names will appear. When women speak up for themselves, they are often perceived as mean, pushy, and unfeminine. Read more at Eigenfactor.org [here](#).

Gender citation gap in International Relations

[“The Gender Citation Gap in International Relations”](#)

International Organization | August 2013

Using data from the Teaching, Research, and International Policy project on peer-reviewed publications between 1980 and 2006, the authors of this study, Daniel Maliniak, Ryan Powers, and Barbara F. Walter found that “women are systematically cited less than men” after controlling for many substantive variables. They suggest that this gap may be due to several factors including the disproportionate number of male scholars in the field and the fact that women tend to cite themselves less than men. This has important hiring, promotion, and tenure implications because citation counts often function as a key metric in determining the quality and impact of a scholar’s research.

The Matilda Effect: gender bias in perceptions of research quality and collaboration interest

[“The Matilda Effect in Science Communication: An Experiment on Gender Bias in Publication Quality Perceptions and Collaboration Interest”](#)

Science Communication | October 2013

In this study, authors Silvia Knobloch-Westerwick, Carroll J. Glynn, and Michael Hoge asked graduate students in communications programs across the country to evaluate conference abstracts, and found that students gave higher ratings to identical abstracts submitted with male author names, associating them with greater “scientific quality.” Female-authored abstracts on topics such as “parenting” and “body image” (rather than “politics”) were perceived as gender-appropriate and rated more highly than abstracts on gender-neutral research topics. Male-authored abstracts that related to topics deemed “masculine” such as communication and political participation or democracy and journalism (as opposed to studies of gender, infancy, and parenting) were judged to have the greatest “scientific quality.” Graduate student evaluators were also most enthusiastic about potentially collaborating with the male authors of abstracts on “masculine” topics. The authors demonstrate how even small degrees of gender bias can accumulate over the course of an academic career, affecting grant proposals, promotion and tenure reviews, and hiring decisions.

Male faculty members in biology train and hire fewer female faculty members

[“Elite male faculty in the life science employ fewer women”](#)

Proceedings of the National Academy of Sciences of the United States of America | July 15, 2014

While women receive more than one-half of the doctoral degrees in biology-related fields, they are drastically underrepresented among life science faculty. In this study, Jason M. Sheltzer and Joan C. Smith found that male faculty members tend to employ and train fewer female graduate students and postdoctoral researchers than their

female faculty colleagues. Through analysis of publicly-available data on the composition of biology laboratories they found that “faculty members who are male train 10–40% fewer women in their laboratories relative to the number of women trained by other investigators.”

Gender bias in teaching evaluations

[“What’s in a Name? Exposing Gender Bias in Student Ratings of Teachers”](#)

Innovative Higher Education | December 5, 2014

In this study, Lillian MacNell, Adam Driscoll, and Andrea N. Hunt found that students rated online instructors higher when the instructors were identified as male. The study focused on two professors (one male, one female), who each taught two sections of an online course, presenting to one group of students with a male-sounding name and the other with a female-sounding name. According to the authors, “The results were astonishing. Students gave professors they thought were male much higher evaluations across the board than they did professors they thought were female, regardless of what gender the professors actually were.”

Gender bias against women of color in science

[“Double Jeopardy? Gender Bias Against Women of Color in Science”](#)

Center for WorkLife Law | 2014

In this report, Joan C. Williams, Katherine W. Phillips, and Erika V. Hall revisit and build upon the classic 1976 study, [“The Double Bind: The Price of Being a Minority Woman in Science.”](#) Their study finds that the four most common practices of gender biases in the sciences are: 1) women have to provide more evidence than men in order to be seen as equally competent; 2) women are caught between the perceptions that science requires masculine qualities and the cultural imperative to appear feminine; 3) “the maternal wall”: the assumption that women lose their competence and commitment after they have children; 4) the fact that women as well as men can be biased against women in masculine work environments. These conditions are exacerbated in STEM environments, practitioners of which often view their disciplines and practices as highly meritocratic. In addition, the dearth of women in STEM fields exacerbates the pernicious effects of tokenism. The report details how these biases function in different ways in relation to black, Asian-American, and Latina women, and how their experiences of bias in fact exceed the limits of these four categories. The report concludes with a list of best practices to implement when recruiting hiring, promoting, and tenuring women of color scientists.

Bias for white men in mentorship and faculty responsiveness

[“What Happens Before? A Field Experiment Exploring How Pay and Representation Differentially Shape Bias on the Pathway into Organizations”](#)

Journal of Applied Psychology | December 13, 2014

This study found that when letters of interest were sent to professors in different disciplines (business, education, life sciences, humanities, social sciences, fine arts, etc.), the responsiveness of faculty varied according to race and gender. In all fields but the fine arts, letters signed with names that tend to be associated with white men (Brad Anderson as opposed to Keisha Thomas, Raj Singh, Mei Chen, or Juanita Martinez) were more likely to receive a response from a faculty member. Among business professors, where the disparities were the most extreme, responses to letters signed with names associated with white men increased 25 percentage points as compared to letters signed with names that signified females or males from underrepresented minorities (87% compared to 62%).

Gender bias in teaching evaluations

[“Female academics face huge sexist bias—no wonder there are so few of them”](#)

The Guardian | February 13, 2015

This article describes an [online tool](#) recently developed by Professor Benjamin Schmidt that allows users to analyze the teacher evaluations posted to RateMyProfessor.com based on the instructor's gender. Users can type in keywords and see the frequency with which they are used to describe female instructors in comparison to male. As author Laura Bates notes, the results indicate that gender biases pervade teaching evaluations: men are more likely to be described as “brilliant,” “intelligent,” and “smart” while women are described as “mean,” “harsh,” “unfair,” “strict,” and “annoying.” Many of these adjectives suggest that female instructors are judged by how closely they measure up to cultural stereotypes of women as kind, friendly, caring, and nurturing mothers—parental criteria that do not get applied to men. However, she also notes that “there is less focus on female professors’ looks than one might anticipate.” These results should be taken seriously given the influence of teaching evaluations on academic hiring, promotion, and tenure decisions.

Gender gap in self-citation practices

[“Men set their own cites high: gender and self-citation across fields and over time”](#)

Eigenfactor.org | August 2015

In a paper recently delivered at the American Sociological Association Annual Meeting in 2015, Molly M. King, Shelley Jo. Correll, Jennifer Jacquet, Carl T. Bergstrom, and Jevin D. West found that “in almost all academic fields, men cite their own research papers at a higher rate than women do.” The authors analyzed a dataset of 1.6 million papers in the scholarly database JSTOR and found that 31% of men and only 21% of women engage in self-citation. Because citation counts weigh heavily in decisions regarding hiring, tenure, and salary, these findings have important implications for academic careers.

Female scholars penalized for collaborative research with male scholars

[“Why men get all the credit when they work with women”](#)

The Washington Post | November 13, 2015

The preliminary findings of [a recent study by Heather Sarsons](#) indicate that women tend to be penalized for their collaborative research with men. Sarsons found that while male economists get tenure 75% of the time regardless of whether the majority of their research is single-authored or collaboratively-authored; meanwhile, women who co-author most of their papers only get tenure about 50% of the time. Men receive more credit for collaborative research with women than women receive for collaborative research with men. This evidence of bias seems to disappear when women collaborate with other women.

The bias of “brilliance”

[“Expectations of brilliance underlie gender distributions across academic disciplines”](#)

Science | 2015

The authors of the study, Sarah-Jane Leslie, Andrei Cimpian, Meredith Meyer, and Edward Freeland, found that women and African Americans are significantly underrepresented in academic fields that are culturally understood to require “brilliance” or “raw talent.” This large-scale, nationwide study of academics from 30 disciplines found evidence of this trend, which the authors name the “field-specific ability beliefs hypothesis.” Fields with a greater belief in the natural and inherent “brilliance” required for research (philosophy, math, physics, music composition) had a far lower percentage of female PhDs.

Gender disparity among academic historians

[“Is History Written About Men, By Men?”](#)

Slate | January 6, 2016

In this study, Andrew Kahn and Rebecca Onion compiled a data set from the Publisher's Market Database and the

list of presses exhibited at the Organization of American Historians. Their analysis found that 75.8% of bestselling popular history books were authored by men and that a similar disparity exists among university press publications. Their work confirms earlier findings by Robert B. Townsend that women are underrepresented in academic history departments (see [“What the Data Tells Us about Women Historians”](#)). Not only are men writing history, but also they are writing the histories of men, determining the narratives through which we understand the present and the possibilities for the future.

Gender bias in students' perceptions of academic achievement

[“Males Underestimate Academic Performance of Their Female Peers in Undergraduate Biology Classrooms”](#)

PLoS One | February 10, 2016

When asked who is the smartest in the class, male biology students consistently ranked male students as more intelligent than better-performing female students. Through social network analysis, Daniel Z. Grunspan, Sarah L. Eddy, Sara E. Brownell, Benjamin L. Wiggins, Alison J. Crowe, and Steven M. Goodreau found that male students are more likely than female students to be perceived as knowledgeable about course content, especially by other male students. Among the 1,700 students surveyed in three introductory biology classes, female students nominated their peers equitably, while male students consistently ranked other male students as more intelligent than their female peers. Even after controlling for class performance and outspokenness, this bias increased over the course of the term.

Gender bias in International Relations (IR) syllabi

[“New Evidence on Gender Bias in IR Syllabi”](#)

Duck of Minerva | forthcoming

In this forthcoming research, Jeff Colgan explores the gender bias evident in International Relations syllabi. This research is drawn from a [larger scholarly project](#) on graduate training that analyzes a dataset of 3,343 required readings assigned in the core International Relations course at 42 U.S. universities. According to Colgan, “the data suggest that 82 percent of assigned readings in IR proseminars are written by all-male authors,” a percentage that is high, but “roughly consistent with the gender pattern of articles published in top IR journals.” Using a larger data set, Colgan found that female instructors assign 36% more readings by women, though they were also more reluctant than their male colleagues to assign their own work. Colgan concludes with a call for those teaching PhD courses in International Relations to consider how their syllabi will appear to women and minority students.

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Katy Murphy, *San Jose Mercury News*, Feb. 26, 2016

Structuring Equality

“In order to overturn structural inequality, we need to structure for equality” – Cathy N. Davidson
How do you work to better structure equality in academia? Let us know in the comments section!

- Suggestions for [avoiding gender bias in letters of recommendation](#), produced by the University of Arizona Commission on the Status of Women.

This piece originally appeared on the [HASTAC blog](#) and is reposted with the authors' permission.

March is Women's History Month and at LSE we're celebrating the achievements of the women of LSE. Check out the LSE history blog <http://goo.gl/9R9m8m> for more and get involved using [#LSEwomen](#)



Note: This article gives the views of the author, and not the position of the LSE Impact Blog, nor of the London School of Economics. Please review our [Comments Policy](#) if you have any concerns on posting a comment below.

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